

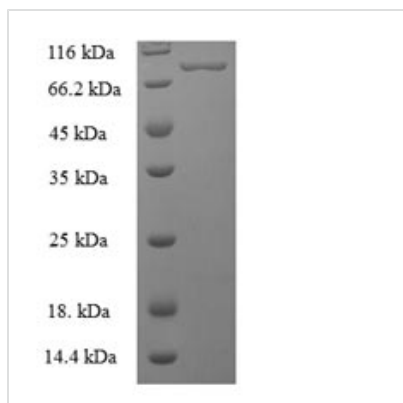


Recombinant Human Bifunctional polynucleotide phosphatase/kinase(PNKP)

Product Code	CSB-EP857031HU
Relevance	Plays a key role in the repair of DNA damage, functioning as part of both the non-homologous end-joining (NHEJ) and base excision repair (BER) pathways. Through its two catalytic activities, PNK ensures that DNA termini are compatible with extension and ligation by either roving 3'-phosphates from, or by phosphorylating 5'-hydroxyl groups on, the ribose sugar of the DNA backbone.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q96T60
Storage Buffer	Tris-based buffer,50% glycerol
Alias	DNA 5'-kinase/3'-phosphatasePolynucleotide kinase-3'-phosphatase 2 domains:Polynucleotide 3'-phosphatase (EC:3.1.3.32) ;2'(3')-polynucleotidasePolynucleotide 5'-hydroxyl-kinase (EC:2.7.1.78)
Product Type	Recombinant Protein
Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MGEVEAPGRLWLESPPGGAPPIFLPSDGQALVLGRGPLTQVTDRKCSRTQVE LVADPETRTVAVKQLGVNPSTTGTQELKPGLEGLGVDTLVLVNGLHPLTLR WEETRTPESQPDTPPGTPLVSQDEKRDAELPKKRMKSNPGWENLEKLLVFT AAGVKPQGKVAGFDLDGTLITRSGKVFPTGPSDWIRILYPEIPRKLRELEAEGY KLVIFTNQMSIGRGKLPAAEFKAKVEAVVEKLGVPFQVLVATHAGLYRKPVTV MWDHLQEQAANDGTPISIGDSIFVGDAAGRANWAPGRKKKDFSCADRLFALN LGLPFATPEEFFLKWPAAGFELPAFDPRTVSRSGPLCLPESRALLSASPEVVV AVGFPGAGKSTFLKKHLVSAGYVHVNRDTLGSWQRCVTTTCETALKQGKRVAI DNTNPDAASRARYVQCARAAGVPCRCFLFTATLEQARHNNRFREMTDSSHIP VSDMVMYGYRKQFEAPTLAEGFSAILEIPFRLWVEPRLGRLYCQFSEG
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Gene Names	PNKP
Expression Region	1-521aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	73.1kDa


Protein Description

Full Length

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.